Supplementary data

Leptospira Lipid A is a potent adjuvant capable of inducing antigen-specific sterilizing immunity against Leptospirosis.

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Supplementary tables:

Group	Survival			
	Experiment 1	Experiment 2	Experiment 3	Experiment 4
PBS	0/6	0/6	0/6	0/6
LAV-Alum	2/6	4/6	3/6	3/6
LAV-MPLA-Alum	4/6	3/6	4/6	4/6
LAV-PLA-Alum	4/4	5/6	6/6	6/6
HKL	6/6	6/6	5/6	6/6

Table. 1: The survival data of immunized animals following infection with a virulent strain of Leptospira for 28 days

Table. 2: Histopathological scores of different organs in hamsters following infection with virulent *Leptospira*

Group	Pathology score											
	Experiment 1			Experiment 2			Experiment 3			Experiment 4		
	Liver	**Lung**	**Kidney**	**Liver**	**Lung**	**Kidney**	**Liver**	**Lung**	**Kidney**	**Liver**	**Lung**	**Kidney**
PBS	3,2,2,3,1,2	3,2,2,3,1,2	3,3,2,3,3,3	3,2,3,3,2,3	3,2,2,3,3,2	3,3,1,2,3,2	1,3,3,2,2,3	3,3,2,3,2,3	3,2,3,2,2,3	3,3,2,3,2,2	3,3,2,2,2,3	3,2,3,3,2,3
LAV-Alum	2,1,3,1,2,1	2,1,3,1,2,1	2,2,3,2,3,2	1,2,3,2,2,3	1,2,2,3,1,2	1,1,2,2,3,1	2,1,3,2,2,2	2,2,3,3,2,1	3,2,2,1,2,3	3,1,2,3,2,2	3,1,2,1,2,3	1,2,3,1,2,2
LAV-MPLA-Alum	1,0,1,0,2,0	1,0,1,0,2,0	0,1,0,2,2,1	1,1,0,1,2,1	1,1,0,0,2,1	1,2,1,1,2,1	2,1,1,1,2,2	2,1,1,2,2,1	1,1,2,1,2,2	1,2,2,1,2,1	2,1,1,1,2,2	1,1,2,2,2,1
LAV-PLA-Alum	1,0,1,0	0,0,1,0	0,1,1,0	1,0,0,1,1,2	0,1,0,0,0,1	0,1,0,1,0,0	0,1,0,1,0,0	0,1,1,0,0,0	0,0,0,1,0,0	0,1,1,0,0,0	0,1,0,1,1,0	0,1,1,0,0,0
HKL	0,0,0,0,1,0	0,0,0,0,1,0	0,1,0,0,0,1	0,0,1,0,1,0	0,0,1,1,0,0	1,0,0,0,0,0	0,1,0,0,1,0	0,0,0,1,0,0	0,1,1,0,0,1	0,1,1,0,0,0	1,0,0,0,1,0	0,1,0,1,0,0

Table. 3: Primers used for qRT-PCR analysis in the study.

Gene name	**Primer Sequence (5'→3')**	
Beta-actin	**F**	CACCCACACTGTGCCCATCTACGA
	R	GGATGCCACAGGATTCCATACCCA
ccl2	**F**	ACGTGTTGGCTCAGCCAGA
	R	ACTACAGCTTCCTTTGGGACACC
ccl3	**F**	ACTGCCTGCTGCTTCTCCTACA
	R	AGGAAAATGACACCTGGCTGG
ccl5	**F**	AGATCTCTGCAGCTGCCCTCA
	R	GGAGCACTTGCTGCTGGTGTAG
ccl8	**F**	CTTTGCCTGCTGCTCATAG
	R	GCACTGGATATTGTTGATTCTC
ccl10	**F**	TACTGCTGGCTCACCTC
	R	ATCTGTCTTGTGAAACCC
ccl12	**F**	GCTACCACCATCAGTCCTC
	R	CTGGCTGCTTGTGATTCTC
ccr5	**F**	ACACTCAGTATCATTTCTGG
	R	GGATCAGGCTCAAGATGACC
Il6	**F**	TGGAGTCACAGAAGGAGTGGCTAAG
	R	TCTGACCACAGTGAGGAATGTCCAC
tnf-a	**F**	ATAGCTCCCAGAAAAGCAAGC
	R	CACCCCGAAGTTCAGTAGACA
ifn-g	**F**	ACTCAAGTGGCATAGATGTGGAAG
	R	GACGCTTATGTTGTTGCTGATGG
il-17	**F**	TCCAGAAGGCCCTCAGACTA
	R	AGCATCTTCTCGACCCTGAA
il-1b	**F**	GCCTTGGGCCTCAAAGGAAAGAATC
	R	GGAAGACACAGATTCCATGGTGAAG
Mip1a	**F**	CCCAGCCAGGTGTCATTTTCC
	R	GCATTCAGTTCCAGGTCAGTG
cxcl10	**F**	CATGGTCCTGAGACAAAAGT
	R	TGATGACACAAGTTCTTCCA
il10	**F**	GCCAGAGCCACATGCTCCTA
	R	GATAAGGCTTGGCAACCCAAGTAA
il5	**F**	TGAGGCTTCCTGTCCCTACTCATAA
	R	TTGGAATAGCATTTCCACAGTACCC
cox2	**F**	TCTGGAACATTGTGAACAACATC
	R	AAGCTCCTTATTTCCCTTCACAC
tlr2	**F**	CTCCTGAAGCTGTTGCGTTAC
	R	GCTCCCTTACAGGCTGAGTTC
tlr4	**F**	TCGCCTTCTTAGCAGAAACAC
	R	GCCTTAGCCTCTTCTCCTTC
foxp3	**F**	GAGAGGCAGAGGACACTCAATG
	R	GCTCAGGTTGTGGCGGATG
16s rRNA	**F**	TAAAGGCTCACCAAGGCGAC
	R	TTAGCCGGTGCTTTAGGCAG
Lipl32	**F**	AAGCATTACCGCTTGTGGTG
	R	GAACTCCCATTTCAGCGATT
IFN-g	**F**	GGCCATCCAGAGGAGCATAG
	R	TTTCTCCATGCTGCTGTTGAA
IL-4	**F**	CCACGGAGAAAGACCTCATCTG
	R	GGGTCACCTCATGTTGGAAATAAA